**PRACTICA 1**

**CURSO: MICROSOFT SQL SERVER 3 – ADMINISTRACION**

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* **ORGANIZACION DE ROLES, USUARIOS Y PERMISOS**

Basándonos en el enunciado organizamos los Roles, los Usuarios y los permisos

**ROL DE BD: ROL\_ADMINISTRADOR**

TAREAS: Registrar nuevas ventas.

MIEMBROS: xserna

TABLAS A LAS QUE ACCEDE Y PERMISOS:

|  |  |
| --- | --- |
| [Employees]  [Customers]  [Orders]  [Order Details]  [Products]  [Categories]  [Suppliers]  [Shippers] | SELECT (X), INSERT (X), UPDATE (X), DELETE(X)  SELECT (X), INSERT (X), UPDATE (X), DELETE(X)  SELECT (X), INSERT (X), UPDATE (X), DELETE(X)  SELECT (X), INSERT (X), UPDATE (X), DELETE(X)  SELECT (X), INSERT (X), UPDATE (X), DELETE(X)  SELECT (X), INSERT (X), UPDATE (X), DELETE(X)  SELECT (X), INSERT (X), UPDATE (X), DELETE(X)  SELECT (X), INSERT (X), UPDATE (X), DELETE(X) |

**ROL DE BD: ROL\_VICEPRESIDENTE**

TAREAS: Administra las ventas corporativas. Mantenimiento de empleados. Información acerca de los pedidos

MIEMBROS: afuller

TABLAS A LAS QUE ACCEDE Y PERMISOS:

|  |  |
| --- | --- |
| [Employees]  [Orders]  [Order Details] | SELECT (X), INSERT (X), UPDATE (X), DELETE(X)  SELECT (X), INSERT (), UPDATE (), DELETE()  SELECT (X), INSERT (), UPDATE (), DELETE() |

**ROL DE BD: ROL\_VENDEDOR\_CORPORATIVO**

TAREAS: Registran, modifican y eliminan pedidos

MIEMBROS: jleverling, mpeacock

TABLAS A LAS QUE ACCEDE Y PERMISOS:

|  |  |
| --- | --- |
| [Customers]  [Orders]  [Order Details]  [Products]  [Categories] | SELECT (X), INSERT (X), UPDATE (), DELETE()  SELECT (), INSERT (X), UPDATE (X), DELETE(X)  SELECT (), INSERT (X), UPDATE (X), DELETE(X)  SELECT (X), INSERT (), UPDATE (), DELETE()  SELECT (X), INSERT (), UPDATE (), DELETE() |

**ROL DE BD: ROL\_GERENTE\_DE\_VENTAS**

TAREAS: Elimina pedidos. Da mantenimiento al catálogo de productos

MIEMBROS: sbuchanan

TABLAS A LAS QUE ACCEDE Y PERMISOS:

|  |  |
| --- | --- |
| [Orders]  [Order Details]  [Products]  [Categories]  [Suppliers] | SELECT (X), INSERT (), UPDATE (), DELETE(X)  SELECT (X), INSERT (), UPDATE (), DELETE(X)  SELECT (X), INSERT (X), UPDATE (X), DELETE(X)  SELECT (X), INSERT (X), UPDATE (X), DELETE(X)  SELECT (X), INSERT (X), UPDATE (X), DELETE(X) |

**ROL DE BD: ROL\_VENDEDOR\_LOCAL**

TAREAS: registra y modifican pedidos. Registra y modifica clientes

MIEMBROS: msuyama, rking, adodsworth

TABLAS A LAS QUE ACCEDE Y PERMISOS:

|  |  |
| --- | --- |
| [Customers]  [Orders]  [Order Details]  [Products]  [Categories] | SELECT (X), INSERT (X), UPDATE (X), DELETE()  SELECT (), INSERT (X), UPDATE (X), DELETE()  SELECT (), INSERT (X), UPDATE (X), DELETE(X)  SELECT (X), INSERT (), UPDATE (), DELETE()  SELECT (X), INSERT (), UPDATE (), DELETE() |

**ROL DE BD: ROL\_** **ADMINISTRADOR\_INTERNO**

TAREAS: Gestiona las ventas en la tienda. Da mantenimiento al catálogo de productos. Da mantenimiento al registro de transportistas

MIEMBROS: lcallahan

TABLAS A LAS QUE ACCEDE Y PERMISOS:

|  |  |
| --- | --- |
| [Orders]  [Order Details]  [Products]  [Categories]  [Suppliers]  [Shippers] | SELECT (X), INSERT (), UPDATE (), DELETE()  SELECT (X), INSERT (), UPDATE (), DELETE()  SELECT (X), INSERT (X), UPDATE (X), DELETE()  SELECT (X), INSERT (X), UPDATE (X), DELETE()  SELECT (X), INSERT (X), UPDATE (X), DELETE()  SELECT (X), INSERT (X), UPDATE (X), DELETE() |

**ROL DE BD: ROL\_** **VENDEDOR\_DE\_TIENDA**

TAREAS: Registran, modifican y eliminan pedidos. Registra clientes

MIEMBROS: uperez, gsmith, pvannels, pmartinez

TABLAS A LAS QUE ACCEDE Y PERMISOS:

|  |  |
| --- | --- |
| [Customers]  [Orders]  [Order Details]  [Products]  [Categories] | SELECT (X), INSERT (X), UPDATE (), DELETE()  SELECT (), INSERT (X), UPDATE (X), DELETE(X)  SELECT (), INSERT (X), UPDATE (X), DELETE(X)  SELECT (X), INSERT (), UPDATE (), DELETE()  SELECT (X), INSERT (), UPDATE (), DELETE() |

* **CREACION DE ROLES Y SUS PERMISOS**

Ya teniendo los Roles y sus Permisos bien definidos y organizados pasamos a escribir los comandos para crearlos.

--CREACION DE ROLES Y PERMISOS--

USE [Northwind]

GO

CREATE ROLE [ROL\_ADMINISTRADOR]

GO

GRANT SELECT, INSERT, UPDATE, DELETE ON [dbo].[Employees] TO [ROL\_ADMINISTRADOR]

GO

GRANT SELECT, INSERT, UPDATE, DELETE ON [dbo].[Customers] TO [ROL\_ADMINISTRADOR]

GO

GRANT SELECT, INSERT, UPDATE, DELETE ON [dbo].[Orders] TO [ROL\_ADMINISTRADOR]

GO

GRANT SELECT, INSERT, UPDATE, DELETE ON [dbo].[Order Details] TO [ROL\_ADMINISTRADOR]

GO

GRANT SELECT, INSERT, UPDATE, DELETE ON [dbo].[Products] TO [ROL\_ADMINISTRADOR]

GO

GRANT SELECT, INSERT, UPDATE, DELETE ON [dbo].[Categories] TO [ROL\_ADMINISTRADOR]

GO

GRANT SELECT, INSERT, UPDATE, DELETE ON [dbo].[Suppliers] TO [ROL\_ADMINISTRADOR]

GO

GRANT SELECT, INSERT, UPDATE, DELETE ON [dbo].[Shippers] TO [ROL\_ADMINISTRADOR]

GO

CREATE ROLE [ROL\_VICEPRESIDENTE]

GO

GRANT SELECT, INSERT, UPDATE, DELETE ON [dbo].[Employees] TO [ROL\_VICEPRESIDENTE]

GO

GRANT SELECT, INSERT, UPDATE, DELETE ON [dbo].[Orders] TO [ROL\_VICEPRESIDENTE]

GO

GRANT SELECT, INSERT, UPDATE, DELETE ON [dbo].[Order Details] TO [ROL\_VICEPRESIDENTE]

GO

CREATE ROLE [ROL\_VENDEDOR\_CORPORATIVO]

GO

GRANT SELECT, INSERT ON [dbo].[Customers] TO [ROL\_VENDEDOR\_CORPORATIVO]

GO

GRANT INSERT, UPDATE, DELETE ON [dbo].[Orders] TO [ROL\_VENDEDOR\_CORPORATIVO]

GO

GRANT INSERT, UPDATE, DELETE ON [dbo].[Order Details] TO [ROL\_VENDEDOR\_CORPORATIVO]

GO

GRANT SELECT ON [dbo].[Products] TO [ROL\_VENDEDOR\_CORPORATIVO]

GO

GRANT SELECT ON [dbo].[Categories] TO [ROL\_VENDEDOR\_CORPORATIVO]

GO

CREATE ROLE [ROL\_GERENTE\_DE\_VENTAS]

GO

GRANT SELECT, DELETE ON [dbo].[Orders] TO [ROL\_GERENTE\_DE\_VENTAS]

GO

GRANT SELECT, DELETE ON [dbo].[Order Details] TO [ROL\_GERENTE\_DE\_VENTAS]

GO

GRANT SELECT, INSERT, UPDATE, DELETE ON [dbo].[Products] TO [ROL\_GERENTE\_DE\_VENTAS]

GO

GRANT SELECT, INSERT, UPDATE, DELETE ON [dbo].[Categories] TO [ROL\_GERENTE\_DE\_VENTAS]

GO

GRANT SELECT, INSERT, UPDATE, DELETE ON [dbo].[Suppliers] TO [ROL\_GERENTE\_DE\_VENTAS]

GO

CREATE ROLE [ROL\_VENDEDOR\_LOCAL]

GO

GRANT SELECT, INSERT, UPDATE ON [dbo].[Customers] TO [ROL\_VENDEDOR\_LOCAL]

GO

GRANT INSERT, UPDATE ON [dbo].[Orders] TO [ROL\_VENDEDOR\_LOCAL]

GO

GRANT INSERT, UPDATE, DELETE ON [dbo].[Order Details] TO [ROL\_VENDEDOR\_LOCAL]

GO

GRANT SELECT ON [dbo].[Products] TO [ROL\_VENDEDOR\_LOCAL]

GO

GRANT SELECT ON [dbo].[Categories] TO [ROL\_VENDEDOR\_LOCAL]

GO

CREATE ROLE [ROL\_ADMINISTRADOR\_INTERNO]

GO

GRANT SELECT ON [dbo].[Orders] TO [ROL\_ADMINISTRADOR\_INTERNO]

GO

GRANT SELECT ON [dbo].[Order Details] TO [ROL\_ADMINISTRADOR\_INTERNO]

GO

GRANT SELECT, INSERT, UPDATE ON [dbo].[Products] TO [ROL\_ADMINISTRADOR\_INTERNO]

GO

GRANT SELECT, INSERT, UPDATE ON [dbo].[Categories] TO [ROL\_ADMINISTRADOR\_INTERNO]

GO

GRANT SELECT, INSERT, UPDATE ON [dbo].[Suppliers] TO [ROL\_ADMINISTRADOR\_INTERNO]

GO

GRANT SELECT, INSERT, UPDATE ON [dbo].[Shippers] TO [ROL\_ADMINISTRADOR\_INTERNO]

GO

CREATE ROLE [ROL\_VENDEDOR\_DE\_TIENDA]

GO

GRANT SELECT, INSERT ON [dbo].[Customers] TO [ROL\_VENDEDOR\_DE\_TIENDA]

GO

GRANT INSERT, UPDATE, DELETE ON [dbo].[Orders] TO [ROL\_VENDEDOR\_DE\_TIENDA]

GO

GRANT INSERT, UPDATE, DELETE ON [dbo].[Order Details] TO [ROL\_VENDEDOR\_DE\_TIENDA]

GO

GRANT SELECT ON [dbo].[Products] TO [ROL\_VENDEDOR\_DE\_TIENDA]

GO

GRANT SELECT ON [dbo].[Categories] TO [ROL\_VENDEDOR\_DE\_TIENDA]

GO

* **CREACION DE USUARIOS Y ASIGNACION DE SUS ROLES**

Con los roles ya creados podemos empezar a crear a los usuarios y asignarles sus roles correspondientes.

--CREACION DE USUARIOS Y ASIGNACION DE ROLES--

USE [master]

GO

CREATE LOGIN [xserna] WITH PASSWORD=N'admin', DEFAULT\_DATABASE=[Northwind]

GO

CREATE LOGIN [afuller] WITH PASSWORD=N'admin', DEFAULT\_DATABASE=[Northwind]

GO

CREATE LOGIN [jleverling] WITH PASSWORD=N'admin', DEFAULT\_DATABASE=[Northwind]

GO

CREATE LOGIN [mpeacock] WITH PASSWORD=N'admin', DEFAULT\_DATABASE=[Northwind]

GO

CREATE LOGIN [sbuchanan] WITH PASSWORD=N'admin', DEFAULT\_DATABASE=[Northwind]

GO

CREATE LOGIN [msuyama] WITH PASSWORD=N'admin', DEFAULT\_DATABASE=[Northwind]

GO

CREATE LOGIN [rking] WITH PASSWORD=N'admin', DEFAULT\_DATABASE=[Northwind]

GO

CREATE LOGIN [adodsworth] WITH PASSWORD=N'admin', DEFAULT\_DATABASE=[Northwind]

GO

CREATE LOGIN [lcallahan] WITH PASSWORD=N'admin', DEFAULT\_DATABASE=[Northwind]

GO

CREATE LOGIN [uperez] WITH PASSWORD=N'admin', DEFAULT\_DATABASE=[Northwind]

GO

CREATE LOGIN [gsmith] WITH PASSWORD=N'admin', DEFAULT\_DATABASE=[Northwind]

GO

CREATE LOGIN [pvannels] WITH PASSWORD=N'admin', DEFAULT\_DATABASE=[Northwind]

GO

CREATE LOGIN [pmartinez] WITH PASSWORD=N'admin', DEFAULT\_DATABASE=[Northwind]

GO

USE [Northwind]

GO

CREATE USER [xserna] FOR LOGIN [xserna]

GO

CREATE USER [afuller] FOR LOGIN [afuller]

GO

CREATE USER [jleverling] FOR LOGIN [jleverling]

GO

CREATE USER [mpeacock] FOR LOGIN [mpeacock]

GO

CREATE USER [sbuchanan] FOR LOGIN [sbuchanan]

GO

CREATE USER [msuyama] FOR LOGIN [msuyama]

GO

CREATE USER [rking] FOR LOGIN [rking]

GO

CREATE USER [adodsworth] FOR LOGIN [adodsworth]

GO

CREATE USER [lcallahan] FOR LOGIN [lcallahan]

GO

CREATE USER [uperez] FOR LOGIN [uperez]

GO

CREATE USER [gsmith] FOR LOGIN [gsmith]

GO

CREATE USER [pvannels] FOR LOGIN [pvannels]

GO

CREATE USER [pmartinez] FOR LOGIN [pmartinez]

GO

USE [Northwind]

GO

ALTER ROLE [ROL\_ADMINISTRADOR] ADD MEMBER [xserna]

GO

ALTER ROLE [ROL\_VICEPRESIDENTE] ADD MEMBER [afuller]

GO

ALTER ROLE [ROL\_VENDEDOR\_CORPORATIVO] ADD MEMBER [jleverling]

GO

ALTER ROLE [ROL\_VENDEDOR\_CORPORATIVO] ADD MEMBER [mpeacock]

GO

ALTER ROLE [ROL\_GERENTE\_DE\_VENTAS] ADD MEMBER [sbuchanan]

GO

ALTER ROLE [ROL\_VENDEDOR\_LOCAL] ADD MEMBER [msuyama]

GO

ALTER ROLE [ROL\_VENDEDOR\_LOCAL] ADD MEMBER [rking]

GO

ALTER ROLE [ROL\_VENDEDOR\_LOCAL] ADD MEMBER [adodsworth]

GO

ALTER ROLE [ROL\_ADMINISTRADOR\_INTERNO] ADD MEMBER [lcallahan]

GO

ALTER ROLE [ROL\_VENDEDOR\_DE\_TIENDA] ADD MEMBER [uperez]

GO

ALTER ROLE [ROL\_VENDEDOR\_DE\_TIENDA] ADD MEMBER [gsmith]

GO

ALTER ROLE [ROL\_VENDEDOR\_DE\_TIENDA] ADD MEMBER [pvannels]

GO

ALTER ROLE [ROL\_VENDEDOR\_DE\_TIENDA] ADD MEMBER [pmartinez]

GO

* **CONCLUSIONES**

La creación de Roles y Permisos es importante para mantener segura nuestra base de datos, administrando quienes pueden acceder a ella y los cambios que pueden hacer. Debemos tomar esto en cuenta cuando tengamos varios usuarios que vayan a acceder a nuestra BD.

* **RECOMENDACIONES**

Siempre es mejor crear roles con permisos específicos y luego asignar estos roles a los usuarios correspondientes, se podría asignar permisos individuales a usuarios, pero es un método más laborioso y redundante.